

Serial Number: 09/006,352

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JUL 20 2000

TECH CENTER 1604/2000

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/006,352

DATE: 07/11/2000  
 TIME: 18:17:18

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\07112000\I006352.raw

RECEIVED

JUL 20 2000

TECH CENTER 1600/2700

2 <110> APPLICANT: Gentz, Reiner et al.  
 4 <120> TITLE OF INVENTION: Tumor Necrosis Factor Receptors 6 Alpha and 6 Beta  
 6 <130> FILE REFERENCE: PF454  
 8 <140> CURRENT APPLICATION NUMBER: 09/006,352  
 9 <141> CURRENT FILING DATE: 1998-01-13  
 11 <150> PRIOR APPLICATION NUMBER: 60/035,496  
 12 <151> PRIOR FILING DATE: 1997-01-14  
 14 <160> NUMBER OF SEQ ID NOS: 24  
 16 <170> SOFTWARE: PatentIn Ver. 2.1  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 1077  
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 24 <221> NAME/KEY: CDS  
 25 <222> LOCATION: (25)...(924)  
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 32 tcg ctg ctg tgc ctg gtg ttg gcg ctg cct gcc ctg ctg ccg gtg ccg 99  
 33 Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro  
 34 10 15 20 25  
 36 gct gta cgc gga gtg gca gaa aca ccc acc tac ccc tgg cgg gac gca 147  
 37 Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala  
 38 30 35 40  
 40 gag aca ggg gag cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt 195  
 41 Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe  
 42 45 50 55  
 44 gtg cag cgg ccg tgc cgc cga gac agc ccc acg acg tgt ggc ccg tgt 243  
 45 Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys  
 46 60 65 70  
 48 cca ccg cgc cac tac acg cag ttc tgg aac tac ctg gag cgc tgc cgc 291  
 49 Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg  
 50 75 80 85  
 52 tac tgc aac gtc ctc tgc ggg gag cgt gag gag gca cgg gct tgc 339  
 53 Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg Ala Cys  
 54 90 95 100 105  
 56 cac gcc acc cac aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg 387  
 57 His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala  
 58 110 115 120  
 60 cac gct ggt ttc tgc ttg gag cac gca tcg tgt cca cct ggt gcc ggc 435  
 61 His Ala Gly Phe Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly  
 62 125 130 135  
 64 gtg att gcc ccg ggc acc ccc agc cag aac acg cag tgc cag ccg tgc 483  
 65 Val Ile Ala Pro Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys  
 66 140 145 150

## RAW SEQUENCE LISTING

DATE: 07/11/2000

PATENT APPLICATION: US/09/006,352

TIME: 18:17:18

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07112000\I006352.raw

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69 Pro Pro Gly Thr Phe Ser Ala Ser Ser Ser Ser Glu Gln Cys Gln
70 155 160 165
72 ccc cac cgc aac tgc acg gcc ctg gcc ctg gcc ctc aat gtg cca gcc 579
73 Pro His Arg Asn Cys Thr Ala Leu Gly Leu Ala Leu Asn Val Pro Gly
74 170 175 180 185
76 tct tcc tcc cat gac acc ctg tgc acc agc tgc act gcc ttc ccc ctc 627
77 Ser Ser Ser His Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu
78 190 195 200
80 agc acc agg gta cca gga gct gag gag tgt gag cgt gcc gtc atc gac 675
81 Ser Thr Arg Val Pro Gly Ala Glu Cys Glu Arg Ala Val Ile Asp
82 205 210 215
84 ttt gtg gct ttc cag gac atc tcc atc aag agg ctg cag cgg ctg ctg 723
85 Phe Val Ala Phe Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu
86 220 225 230
88 cag gcc ctc gag gcc ccg gag gcc tgg ggt ccg aca cca agg gcg gcc 771
89 Gln Ala Leu Glu Ala Pro Glu Gly Trp Gly Pro Thr Pro Arg Ala Gly
90 235 240 245
92 cgc gcg gcc ttg cag ctg aag ctg cgt cgg cgg ctc acg gag ctc ctg 819
93 Arg Ala Ala Leu Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu
94 250 255 260 265
96 ggg gcg cag gac ggg gcg ctg ctg gtg cgg ctg ctg cag gcg ctg cgc 867
97 Gly Ala Gln Asp Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg
98 270 275 280
100 gtg gcc agg atg ccc ggg ctg gag cgg agc gtc cgt gag cgc ttc ctc 915
101 Val Ala Arg Met Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu
102 285 290 295
104 cct gtg cac tgatcctggc cccctcttat ttattctaca tccttggcac 964
105 Pro Val His
106 300
108 cccacttgca ctgaaagagg ctttttttta aatagaagaa atgaggtttc ttaaagctta 1024
110 tttttataaa gctttttcat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1077
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115 <212> TYPE: PRT
116 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 2
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120 1 5 10 15
122 Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly Val Ala Glu
123 20 25 30
125 Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu Arg Leu Val
126 35 40 45
128 Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro Cys Arg Arg
129 50 55 60
131 Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His Tyr Thr Gln
132 65 70 75 80
134 Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val Leu Cys Gly
135 85 90 95

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/006,352  
 DATE: 07/11/2000  
 TIME: 18:17:18

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 Output Set: N:\CRF3\07112000\I006352.raw

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140 Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe Cys Leu Glu
141      115      120      125
143 His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro Gly Thr Pro
144      130      135      140
146 Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr Phe Ser Ala
147 145      150      155      160
149 Ser Ser Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn Cys Thr Ala
150      165      170      175
152 Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His Asp Thr Leu
153      180      185      190
155 Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val Pro Gly Ala
156      195      200      205
158 Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe Gln Asp Ile
159      210      215      220
161 Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu Ala Pro Glu
162 225      230      235      240
164 Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu Gln Leu Lys
165      245      250      255
167 Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp Gly Ala Leu
168      260      265      270
170 Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met Pro Gly Leu
171      275      280      285
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174      290      295      300
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179 <211> LENGTH: 1667
180 <212> TYPE: DNA
181 <213> ORGANISM: Homo sapiens
183 <220> FEATURE:
184 <221> NAME/KEY: CDS
185 <222> LOCATION: (73)..(582)
187 <400> SEQUENCE: 3
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190 ccagcaagga cc atg agg gcg ctg gag ggg cca ggc ctg tgc ctg ctg tgc 111
191      Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys
192      1      5      10
194 ctg gtg ttg gcg ctg cct gcc ctg ctg ccg gtg ccg gct gta cgc gga 159
195 Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly
196      15      20      25
198 gtg gca gaa aca ccc acc tac ccc tgg cgg gac gca gag aca ggg gag 207
199 Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu
200 30      35      40      45
202 cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt gtg cag cgg ccg 255
203 Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro
204      50      55      60
206 tgc cgc cga gac agc ccc acg acg tgt ggc ccg tgt cca ccg cgc cac 303
207 Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His

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## RAW SEQUENCE LISTING

DATE: 07/11/2000

PATENT APPLICATION: US/09/006,352

TIME: 18:17:18

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Output Set: N:\CRF3\07112000\I006352.raw

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210 tac acg cag ttc tgg aac tac ctg gag cgc tgc cgc tac tgc aac gtc 351
211 Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val
212          80          85          90
214 ctc tgc ggg gag cgt gag gag gca cgg gct tgc cac gcc acc cac 399
215 Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg Ala Cys His Ala Thr His
216          95          100          105
218 aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg cac gct ggt ttc 447
219 Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe
220 110          115          120          125
222 tgc ttg gag cac gca tgc tgt cca cct ggt gcc ggc gtg att gcc ccg 495
223 Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro
224          130          135          140
226 ggt gag agc tgg gcg agg gga ggg gcc ccc agg agt ggt ggc cgg agg 543
227 Gly Glu Ser Trp Ala Arg Gly Gly Ala Pro Arg Ser Gly Gly Arg Arg
228          145          150          155
230 tgt ggc agg ggt cag gtt gct ggt ccc agc ctt gca ccc tgagctagga 592
231 Cys Gly Arg Gly Gln Val Ala Gly Pro Ser Leu Ala Pro
232          160          165          170
234 caccagtacc cctgacctg ttcttccctc ctggctgcag gcacccccag ccagaacacg 652
236 cagtgccagc cgtgcccccc aggcaccttc tcagccagca gctccagctc agagcagtgc 712
238 cagccccacc gcaactgcac ggccctgggc ctggccctca atgtgccagg ctcttctctc 772
240 catgacaccc tgtgcaccag ctgcactggc ttccccctca gcaccagggt accaggtgag 832
242 ccagaggcct gagggggcag cacactgcag gccaggccca ctgtgacct cactcctgcc 892
244 cctgcacgtg catctagcct gaggcacgcc agctggctct gggagggggc cacagtggat 952
246 ttgaggggtc aggggtccct ccactagatc cccaccaagt ctgccctctc aggggtggct 1012
248 gagaatttgg atctgagcca gggcacagcc tcccctggag agctctggga aagtgggcag 1072
250 caatctccta actgccccag gggagggtgg ctggctcctc tgacacgggg aaaccgaggg 1132
252 ctgatggtaa ctctcctaac tgcctgagag gaaggtggct gcctcctctg acatggggaa 1192
254 accgagggcc aatgttaacc actgttgaga agtcacaggg ggaagtgacc cccttaacat 1252
256 caagtcaggt ccggtccatc tgcaggtccc aactcgcccc ttccgatggc ccaggagccc 1312
258 caagcccttg cctggggccc cttgcctctt gcagccaagg tccgagtggc cgctcctgcc 1372
260 ccetaggcct ttgtccagc tctctgaccg aaggtcctct ccccttctcc agtccccatc 1432
262 gttgcactgc cctctccagc acggctcact gcacagggat ttctctctcc tgcaaacccc 1492
264 ccgagtgggg ccagaaaagc agggtaacct gcagcccccg ccagtgtgtg tgggtgaaat 1552
266 gatcggaacc ctgcctcccc accccactgc aggagctgag gagtgtgagc gtgccgtcat 1612
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272 <211> LENGTH: 170
273 <212> TYPE: PRT
274 <213> ORGANISM: Homo sapiens
276 <400> SEQUENCE: 4
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280 Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly Val Ala Glu
281          20          25          30
283 Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu Arg Leu Val
284          35          40          45
286 Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro Cys Arg Arg

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/006,352 DATE: 07/11/2000  
 TIME: 18:17:18

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\07112000\I006352.raw

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287      50      55      60
289 Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His Tyr Thr Gln
290 65      70      75      80
292 Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val Leu Cys Gly
293      85      90      95
295 Glu Arg Glu Glu Glu Ala Arg Ala Cys His Ala Thr His Asn Arg Ala
296      100      105      110
298 Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe Cys Leu Glu
299      115      120      125
301 His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro Gly Glu Ser
302      130      135      140
304 Trp Ala Arg Gly Gly Ala Pro Arg Ser Gly Gly Arg Arg Cys Gly Arg
305 145      150      155      160
307 Gly Gln Val Ala Gly Pro Ser Leu Ala Pro
308      165      170
312 <210> SEQ ID NO: 5
313 <211> LENGTH: 455
314 <212> TYPE: PRT
315 <213> ORGANISM: Homo sapiens
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321 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
322      20      25      30
324 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
325      35      40      45
327 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
328      50      55      60
330 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
331 65      70      75      80
333 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
334      85      90      95
336 Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
337      100      105      110
339 Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
340      115      120      125
342 Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
343      130      135      140
345 Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
346 145      150      155      160
348 Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
349      165      170      175
351 Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
352      180      185      190
354 Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
355      195      200      205
357 Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
358      210      215      220
360 Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/006,352

DATE: 07/11/2000

TIME: 18:17:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07112000\I006352.raw

L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

K. Handa

1632

RAW SEQUENCE LISTING                      DATE: 07/10/2000  
PATENT APPLICATION:    US/09/006,352              TIME: 12:36:07

Input Set : A:\PF454.5-24.txt  
Output Set: N:\CRF3\07102000\I006352.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Gentz, Reiner et al.  
5 <120> TITLE OF INVENTION: Tumor Necrosis Factor Receptors 6 Alpha and 6 Beta  
7 <130> FILE REFERENCE: PF454  
9 <140> CURRENT APPLICATION NUMBER: 09/006,352  
C--> 10 <141> CURRENT FILING DATE: 2000-01-13  
12 <150> PRIOR APPLICATION NUMBER: 60/035,496  
13 <151> PRIOR FILING DATE: 1997-01-14  
15 <160> NUMBER OF SEQ ID NOS: 24  
17 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

1493 <210> SEQ ID NO: 24  
1494 <211> LENGTH: 28  
1495 <212> TYPE: DNA  
1496 <213> ORGANISM: Homo sapiens  
1498 <400> SEQUENCE: 24  
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E--> 1502 1



## VERIFICATION SUMMARY

DATE: 07/10/2000

PATENT APPLICATION: US/09/006,352

TIME: 12:36:08

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Output Set: N:\CRF3\07102000\I006352.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
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L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1502 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:28 SEQ:24